## Color inside and out

### MAKE A POWERFUL STATEMENT

Discover a new world of mobile computing with optional Intel® Centrino® 2 processor technology and available Intel® Core™ 2 Duo processors up to 2.66GHz[1] and up to 4GB[15,17] of pre-installed system memory.

The VAIO® CS notebook comes pre-installed with Genuine Microsoft® Windows Vista® - Ultimate, Home Premium and Business editions available.

A perfect mix of power and style, the VAIO® CS is a slim, lightweight PC weighing only 5.7lbs[7] (with standard battery).

The CS notebook's eye-catching and bold colors grace its exterior as well as interior to ensure that this PC makes a head-to-toe color coordinated impression.

Offering a massive boost in wireless connection speed and range, work and play quicker virtually anywhere within your office or home using 802.11n integrated wireless LAN technology[3].

### RICH MULTIMEDIA

Watch all your favorite movies and shows in stunning clarity on the 14.1" [6] widescreen display using XBRITE-ECO™ technology so you can see deeper blacks, brighter whites, true-to-life color and razor-sharp detail from almost any angle.

Control your music and movies with a slide of your finger using the touch sensor A/V slide control (not available on Matte Black option).

Enjoy your personal musical light shows on a CS notebook. A 12-tone music analyzer translates your music into a colorful LED light show that plays out beneath the trim of the CS notebook.

### EASY COMMUNICATION

Stay connected to colleagues, friends and family at home or on-the-go with real-time video conferencing[4] using the integrated MOTION EYE® camera and microphone.

Step out and be seen with the VAIO® CS notebook, a gorgeous 14.1" [6] notebook available in fashionable high-gloss colors inside and out. This thin-and-light PC slips easily in and out of hand bags and features an array of entertainment extras, including light effects and an intuitive AV "slide" control (not available on Matte Black option) that lets you control your media with the slide of a finger.

Intel Centrino 2 Inside Performance to go

Windows Vista Ultimate

802.11 WiFi CERTIFIED

Bluetooth

Blu-ray Disc

XBRITE-ECO™

dlna CERTIFIED

RoHS COMPLIANT

# VGN-CS290 Configure-to-Order Series

VAIO® CS Series Notebook PC

## Specifications

### General

Computer Type: Notebook

Type of Use: Portable

Action Buttons: Play / Pause / Stop, AV Mode, Mute, Volume - / +, Capture, WLAN / Bluetooth® on / off

Pointing Device: Electro-static touch pad

Security: Biometric Fingerprint Sensor (only available on Matte Black option)

### Hardware

Keyboard: QWERTY, 82 keys with 2mm stroke and 18.05mm pitch

Camera: Built-in 1.3 megapixel MOTION EYE® camera and microphone

### Processor

Type: Intel® Core™ 2 Duo Processor T9550 (Configuration 1), Intel® Core™ 2 Duo Processor P8700 (Configuration 2), Intel® Core™ 2 Duo Processor P8600 (Configuration 3), Intel® Core™ 2 Duo Processor T6400 (Configuration 4) or Intel® Pentium® T3400 (Configuration 5)

Speed: 2.66GHz[1] (Configuration 1), 2.53GHz (Configuration 2), 2.40GHz (Configuration 3), 2.0GHz (Configuration 4) or 2.16GHz (Configuration 5)

Front Side Bus Speed: 1066MHz (Configurations 1-3), 800MHz (Configuration 4) or 667MHz (Configuration 5)

L2 Cache: 6MB (Configuration 1), 3MB (Configurations 2-3), 2MB (Configuration 4) or 1MB (Configuration 5)

Technology: Optional Intel® Centrino® 2 processor techology or Optional Intel® Centrino® processor technology

### Memory

Type: DDR2

Installed: 4GB PC2-6400 (2GBx2)[15,17], 3GB[17] PC2-6400 (2GBx1 + 1GBx1) or 2GB[17] PC2-6400 (1GBx2)

Maximum: 4GB[15,17]

Speed: 800MHz

### Hard Drive

Capacity: 400GB[2] (Configuration 1), 320GB[2] (Configuration 2), 320GB[2] (Configuration 3), 250GB[2] (Configuration 4) or 160GB[2] (Configuration 5)

Speed: 7200rpm (Configuration 2), 5400rpm (Configuration 1 and 3-5)

Interface: Serial ATA

### Optical Drive #1

BD-R Read: 2x max[5] (only with BD-ROM option)

BD-R Write: 4x max[5] (only with BD-R/-RE/-ROM option)

BD-RE Write: 2x max[5] (only with BD-R/-RE/-ROM option)

BD-ROM Read: 2x max[5] (only with BD-ROM option)

BD-RE Read: 2x max[5] (only with BD-ROM option)

BD-R DL Read: 2x max[5] (only with BD-ROM option)

BD-R DL Write: 2x max[5] (only with BD-R/-RE/-ROM option)

Blu-ray Disc™ Support: Optional[5] - Read Only (BD-ROM) or Read / Write (BD-R/-RE/-ROM)

BD-RE DL Read: 2x max[5] (only with BD-ROM option)

BD-RE DL Write: 2x max[5] (only with BD-R/-RE/-ROM option)

CD Support: Read / Write (CD/-R/-RW)

DVD Support: Read / Write (DVD±R/±RW/±R DL/-RAM)

### Expansion Slots

Multimedia Card Reader: One Memory Stick PRO™ media slot (Standard/Duo) with MagicGate® functionality
One ExpressCard® /34 media slot
One Secure Digital (SD™ memory card) media slot

### Audio

Sound System: Intel® High Definition Audio

### Display

Screen Size: 14.1"[6]

Resolution: 1280 x 800

XBRITE-ECO™ Technology: Yes

Technology: WXGA LCD

### Graphics

Processor: Mobile Intel® Graphics Media Accelerator 4500MHD with Intel® Clear Video Technology with Total Available Graphics Memory of 820MB (max.)[10] (with 2GB RAM option), 1340MB (max.)[10] (with 3GB RAM option and 4GB RAM option with 32-bit OS) or 1750MB (max.)[10] (with 4GB RAM option and 64-bit OS)

Chipset: Mobile Intel® GM45 Express Chipset

Max. External Resolution via VGA: 2048x1536

### Inputs and Outputs

Headphone Jack: 1

Modem Jack: 1

Microphone Input: 1

USB Port(s): 3 (2.0 compliant)

VGA Output(s): 1

DC-In: 1

i.LINK® Connection: 1 (4pin) i.LINK® connector (IEEE 1394)[9]

Ethernet Connection (s): 1

### Networking/Modem

Ethernet Protocol: 10Base-T/100Base-TX

Ethernet Speed: Fast Ethernet (RJ-45)

Modem Type: Integrated V.92/V.90 Modem (RJ-11)

Wireless LAN: Intel® WiFi Link 5100AGN (802.11a/b/g/n)[3]

Bluetooth® Technology: Integrated Stereo A2DP Bluetooth® Technology (2.1 + EDR)[16]

### Power

Battery Type: VGP-BPS13/S (Standard Capacity) or VGP-BPL13 (Large Capacitiy) Lithium-ion Battery

Estimated Battery Life: 1.5-4.0 hours[11] Standard Capacity Battery
2.5-6.0 hours[11] Large Capacity Battery

Power Requirements: 86W + 10%

### Software

Operating System: Genuine Microsoft® Windows Vista® Ultimate 64-bit[17], Windows Vista® Home Premium 64-bit[17] or Windows Vista® Business 32-bit with SP1/XP Pro downgrade (XP downgrade not compatible with Blu-ray Disc™ optical drives)

Supplied Software: Microsoft® Works SE 9.0 w/ 60-Day Trial Version of Microsoft® Office Home and Student 2007[14] (with Home Premium or Ultimate OS) or Small Business 2007[14] (with Business OS)

VAIO® Multimedia Suite: VAIO® Startup Assistant
Click to Disc Editor - Import, Edit, Burn
VAIO® Movie Story - Simple Movie Creation
VAIO® MusicBox - Music by Mood
VAIO® Media plus - Multimedia Streaming Software
*Please access VAIO® Help and Support from your PC for a complete list of software applications and trials.

Anti-Virus & Recovery Software: Microsoft® Windows Live™ OneCare™ Trial Version[18]

### Service and Warranty Information

Telephone Support: 1 year toll-free technical telephone assistance, available 24/7[13]

Online and Email Support: Support available from http://www.esupport.sony.com/EN/VAIO

Limited Warranty Term: 1 year limited warranty[12]. See actual warranty for details.

### Environmental Information

RoHS®: Compliant
For more information: www.sony.com/vaioeco

ENERGY STAR®: 4.0 Compliant (not available with T3400 CPU)

### Dimensions

Weight: 5.7 lbs[7] (with standard battery)

Measurements: 13.2"(W) x 0.83-1.51"(H) x 9.8"(D)[8]

### Supplied Accessories

Standard Capacity Lithium-ion battery (VGP-BPS13/S) or Large Capacity Battery (VGP-BPL13)

AC Adapter

Power Cord

### Optional Accessories

Large Capacity Battery (VGP-BPL13)

Additional Standard Lithium-ion Battery (VGP-BPS13A/S)

AC Adapter (VGP-AC19V25)

Bluetooth®[16] Mouse with Mouse Pad (VGP-BMS5P)

USB Portable Speaker (VGP-USP1)

Slip Case with VAIO Smart Protection® technology (VGP-CKC3)

Neoprene Notebook and AC Adapter Case (VGP-AMC5)

Notebook Backpack (VGP-CCP3/H)

Color: Champagne Gold, Cosmopolitan Pink, Dove White, Glossy Black, Matte Black, Sangria Red

1. GHz denotes microprocessor internal clock speed; other factors may affect application performance. CPU speed will be reduced under certain operating conditions.
2. GB means one billion bytes when referring to hard drive capacity. Accessible capacity may vary. A portion of hard disk space is reserved as a recovery partition.
3. Requires 802.11n compatible access point. Some functionality may require Internet services.
4. Broadband Internet service required along with third party services which may require a subscription or other service fee.
5. Certain circumstances may limit/prevent Blu-ray Disc™ media playback. For optimal performance, download all updates from http://esupport.sony.com/EN/DRIVERS.
6. Viewable area measured diagonally.
7. Non-metric weights and measures are approximate and may vary.
8. Measured at the narrowest point
9. i.LINK® is a trademark of Sony used only to designate that a product contains an IEEE 1394 connector. All products with an i.LINK connector may not communicate with each other.
10. Total Available Graphics Memory refers to the new Windows Vista classification of graphics memory, which varies depending on the operating condition, version of device driver and system memory size.
11. Actual battery life will vary based on product settings, usage patterns, battery and environmental conditions.
12. See actual limited warranty for details. For a copy of Sony's warranty, please visit www.sony.com/pcsupport, call toll-free 888-476-6972 (888-4SONYPC) or write to Sony Electronics, 12451 Gateway Boulevard, Fort Myers, FL 33913.
13. For certain third party software applications, Sony provides first level phone support. Additional telephone support may be available from the applicable 3rd party vendor. Availability and schedule for any such support is determined by the aplicable software vendor.
14. 60-Day Trial Version of Microsoft® Office 2007 - This trial software will work only for 60 days after you first use it. You will not be able to use the software if you dont activate it as described the first time you use the software. You can activate the software by Internet: Internet service charges may apply. If you want to keep using the software after the 60-day trial period, you must convert to the perpetual version. You can convert online by following the conversion instgructions presented during setup and paying the required fees.
15. A portion of the system memory over 3GB may not be available to the operating system.
16. Interoperability and compatibility among Bluetooth® devices varies.
17. Compatibility and performance in a 64 bit environment may vary. Check with the manufacturer of your software or accessory to ensure you have the latest updates.
18. Microsoft® Windows Live™ OneCare™ Trial Version – This trial software will work for ninety (90) days after you first use it. You will not be able to use the software if you do not activate it as described the first time you use the software. You can activate the software by Internet: Internet service charges may apply. If you want to keep using the software after the 90-day trial period, you must buy a subscription. You can subscribe online by following the conversion instructions presented during setup and paying the required fees.

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